

Residential AdvanTex® AX20 Field Maintenance Report

AFO-OM-MA-1

Rev. 1.0, 7/07

© Orenco Systems, Inc.

AdvanTex Treatment Systems

While regional regulations may vary, Orenco Systems requires that the following inspection and maintenance activities be performed, by a qualified provider, on all AdvanTex Treatment Systems sold. All activities are to be performed three to six months after system start-up; and an annual field-service inspection, including sampling, is to be scheduled in late spring or in early summer. For AXN systems, there is to be a minimum of four inspections during the first two years, and then annual inspections thereafter. Copies of inspection and maintenance reports and additional comments/documentation are to be forwarded to the AdvanTex Dealer, or if no Dealer, to Orenco Systems, 814 Airway Avenue, Sutherlin, OR 97479.

Date: _____ Site: _____ Parcel #: _____ Operator: _____

Maintenance Activity

Activity Check-Off/Notes

A) Inspect Control/Alarm Panel

- 1) Check pump operations in manual mode ☐ _____
- 2) Check/record pump amperage and voltage ☐ _____
Voltage at rest: _____ Amps at rest: _____ Amps while pumping: _____
- 3) Check timer settings ☐ _____
- 4) Record elapsed time meter and counter readings (if applicable) ☐ _____
- 5) Confirm operation of audible and visual alarms ☐ _____

B) Inspect/Test Pumping System

- 1) Verify no leaks in riser ☐ _____
- 2) Inspect splice box for moisture and secure connections ☐ _____
- 3) Verify condition of and correct operation of all floats ☐ _____
- 4) Verify neat wrap of float cords ☐ _____
- 5) Pull pump and clean intake screen if necessary ☐ _____
- 6) Visually inspect recirculating splitter valve and liquid level ☐ _____

C) Inspect Effluent Filters/Pump Screens

- 1) Clean as needed ☐ _____
- 2) Visually inspect and comment on biomat growth ☐ _____

D) Inspect Processing Tank

- 1) Verify no inlet flow ☐ _____
- 2) Inspect liquid depth, odor, scum color, effluent characteristics ☐ _____
- 3) Measure sludge and scum; recommend tank pumping, if necessary ☐ _____

E) Inspect AdvanTex Filter

- 1) Inspect for ponding; assess character and color of biomat ☐ _____
- 2) Check squirt height ☐ _____
- 3) Verify proper orifice position, equal spray under orifices, no clogged orifices ☐ _____
- 4) Check for odors; adjust recirculating time if necessary ☐ _____
Normal: ☐ Musty ☐ Earthy ☐ Moldy
Pungent: ☐ Sulfide ☐ Cabbage ☐ Decay
- 5) Clean and flush manifold (if necessary) ☐ _____
- 6) Re-check squirt height ☐ _____
- 7) Flush underdrain ☐ _____
- 8) Inspect intake vent and clean as necessary ☐ _____

F) Miscellaneous

- 1) Exercise all valves ☐ _____
- 2) Return valves, control panel to proper settings ☐ _____
- 3) Submit required documentation ☐ _____

Residential AdvanTex® AX20 Field Sampling Report Form

AFO-OM-MA-2

Rev. 1.0, 7/07

© Orenco Systems, Inc.

Date: _____

Inspector: _____

Address: _____

System Type: _____

The following effluent tests can be easily and routinely performed in the field. Perform annually, or as frequently as necessary per the methodology indicated. For AXN systems, there is to be a minimum of four sampling events the first two years and then annual sampling thereafter. Record your results/observations in the space provided:

Parameter	Methodology	Typical	Field Observations	Pre-Test Lab Concurrence
Clarity	Visual ¹	Clear (15 ± NTUs)	_____	_____
			_____	_____
Odor	Sniff ²	Non-offensive (no smell of rotten eggs or cabbage; a musty, earthy, or moldy odor is normal)	_____	_____
			_____	_____
Oily film	Visual; inside tank	None (no red, blue, green, or orange sheen)	_____	_____
			_____	_____
Foam	Visual; inside tank	None	_____	_____
pH	Field	6-9	_____	_____

Date: _____ Date: _____

Signature
Field Sampler

Signature
Lab Technician

¹ To check for clarity, service providers can carry a lab-prepared sample bottle or bottles with known turbidities of 15 NTUs and 30 NTUs, to compare against, or can use a portable turbidity meter. Always put effluent sample in a clear glass container or beaker to evaluate clarity. Using a small, removable sticker, write the date, place it low on the beaker, and photograph for documentation.

² To check for odor, service providers can simply sniff the effluent sample with the assistance of an olfactory sniffer device and/or sulfide odor measuring packet. Whenever possible, interview system users about odor occurrences and request user's assistance in verifying or detecting odors.